

FORM PTO-146 PATENT & TRADEMARK OFFICE		SERIAL NO. 10/762,028	CASE NO. 7814/93
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		FILING DATE January 20, 2004	GROUP ART UNIT 1625
(use several sheets if necessary)		APPLICANT(S): Hisashi Yamamoto et al.	

1 of 3

**REFERENCE DESIGNATION                    U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
BJ	A1	4,471,130	09/11/1984	Katsuki et al.		
BJ	A2	4,900,847	02/13/1990	Hanson et al.		
BJ	A3	6,271,400 B2	08/07/2001	Sharpless et al.		

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES OR NO
BJ	A4	2002-88046	03/27/2002	Japan		

EXAMINER INITIAL	OTHER ART - NON PATENT LITERATURE DOCUMENTS <small>(Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.)</small>	
BJ	A5	Bernardi, P. et al., "A General and Convenient Procedure for the Synthesis of N-Alkylarylamines and N-Alkylheteroarylamines by Electrophilic Amination of Cuprates with N-Alkylhydroxylamines," <i>J. Org. Chem.</i> , 1999, 64(2), 641-643.
BJ	A6	Blum, S.A. et al., "Enantioselective Oxidation of Di- <i>tert</i> -Butyl Disulfide with a Vanadium Catalyst: Progress toward Mechanism Elucidation," <i>J. Org. Chem.</i> 2003, 68(1), 150-155.
BJ	A7	Bolm, C. and Kühn, T., "Asymmetric Epoxidation of Allylic Alcohols Using Vanadium Complexes of ( <i>N</i> -Hydroxy-[2.2]paracyclophane-4-carboxylic Amides," <i>Synlett</i> , 2000, 6, 899-901.
BJ	A8	Bolm, C. and Bienewald, F., "Asymmetric Sulfide Oxidation with Vanadium Catalysts and H <sub>2</sub> O <sub>2</sub> **," <i>Angew. Chem. Int. Ed. Engl.</i> , 1995, 34 (23/24), 2640-2642.
BJ	A9	Brougham, P. et al. "Oxidation Reactions Using Magnesium Monoperphthalate: A Comparison with <i>m</i> -Chloroperoxybenzoic Acid," <i>Synthesis</i> , 1987, 1015-16.
BJ	A10	Cavello, L. and Jacobsen, H., "Electronic Effects in (salen)Mn-Based Epoxidation Catalysts," <i>J. Org. Chem.</i> , 2003, 68(16), 6202-6207.
BJ	A11	Cogan, D.A. et al., "Catalytic Asymmetric Oxidation of <i>tert</i> -Butyl Disulfide. Synthesis of <i>tert</i> -Butanesulfonamides, <i>tert</i> -Butyl Sulfoxides, and <i>tert</i> -Butanesulfonimines," <i>J. Am. Chem. Soc.</i> , 1998, 120(32), 8011-19.
BJ	A12	Dittmer, D.C. et al., "A Tellurium Transposition Route to Allylic Alcohols: Overcoming Some Limitations of the Sharpless-Katsuki Asymmetric Epoxidation," <i>J. Org. Chem.</i> , 1993, 58(3), 718-731.
BJ	A13	Galsbøl, F. et al., "The Preparation, Separation, and Characterization of the <i>lel</i> <sub>3</sub> - and <i>ob</i> <sub>3</sub> -Isomers of Tris( <i>trans</i> -1,2-cyclohexanediamine)rhodium(III) Complexes," <i>Acta. Chem. Scand.</i> 1972, 26(9), 3605-3611.
BJ	A14	Gao, Y. et al., "Catalytic Asymmetric Epoxidation and Kinetic Resolution: Modified Procedures Including <i>In Situ</i> Derivatization," <i>J. Am. Chem. Soc.</i> , 1987, 109(19), 5765-5780.

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BJ	A15	Grundke, G. et al., "Optically Active N-Hydroxy- $\alpha$ -L-Amino Acid Methyl Esters: An Improved and Simplified Synthesis," <i>Synthesis</i> , 1987, 1115-1116.
BK	A16	Hajipour, A. R. and Pyne, S.G., "A Rapid and Efficient Synthesis of Oxaziridines and Diaryl Nitrones Using Oxone," <i>J. Chem. Research (S)</i> , 1992, 388.
BN	A17	Hartung, J. and Greb, M., "Transition metal-catalyzed oxidations of bishomoallylic alcohols," <i>Journal of Organometallic Chemistry</i> 2002, 661, 67-84.
BN	A18	Hirao, T., "Vanadium in Modern Organic Synthesis," <i>Chemical Reviews</i> , 1997, 97(8), 2707-2724.
BH	A19	Hoshino, Y. et al., "Design of Optically Active Hydroxamic Acids as Ligands in Vanadium-Catalyzed Asymmetric Epoxidation," <i>Bull. Chem. Soc. Jpn.</i> , 2000, 73, 1653-1658.
BH	A20	Hoshino, Y. and Yamamoto, H., "Novel $\alpha$ -Amino Acid-Based Hydroxamic Acid Ligands for Vanadium-Catalyzed Asymmetric Epoxidation of Allylic Alcohols," <i>J. Am. Chem. Soc.</i> , 2000, 122(42), 10452-53.
BN	A21	Itoh, T. et al., "Vanadium-Catalyzed Epoxidation of Cyclic Allylic Alcohols, Stereoselectivity and Stereocontrol Mechanism," <i>Journal of the American Chemical Society</i> , 1979, 101(1), 159-169.
BH	A22	Katsuki, T. and Sharpless, K.B., "The First Practical Method for Asymmetric Epoxidation," <i>J. Am. Chem. Soc.</i> , 1980, 102(18), 5974-5976.
BH	A23	Khlestkin, V.K. et al., "Intramolecular Cyclization of 1,2-Bis(N-alkoxy-N-nitrosoamino)alkanes: A Unique Route to 4,5-Dihydro-1,2,3-triazole 2-Oxides," <i>Synthesis</i> , 2000, 5, 681-690.
BH	A24	Larrow, J.F. et al., "A Practical Method for the Large-Scale Preparation of [N,N-Bis(3,5-di-tert-butylsalicylidene)-1,2-cyclohexanediaminato(2-)]manganese(III) Chloride, a Highly Enantioselective Epoxidation Catalyst," <i>J. Org. Chem.</i> , 1994, 59(7), 1939-1942.
BH	A25	Ligtenbarg, A.G.J. et al., "Catalytic oxidations by vanadium complexes," <i>Coordination Chemistry Reviews</i> , 2003, 237, 89-101.
BH	A26	Liu, G. et al., "Catalytic Asymmetric Synthesis of <i>tert</i> -Butanesulfonamide. Application to the Asymmetric Synthesis of Amines," <i>J. Am. Chem. Soc.</i> , 1997, 119(41), 9913-9914.
BH	A27	Makita, N. et al., "Asymmetric Epoxidation of Homoallylic Alcohols and Application in a Concise Total Synthesis of (-)- $\alpha$ -Bisabolol and (-)-8- <i>epi</i> - $\alpha$ -Bisabolol**," <i>Angew. Chem. Int. Ed.</i> , 2003, 42(8), 941-943.
BH	A28	Mazhukin, D. G. et al., "Interaction of 1,2-Bishydroxylamines with 1,2-Dicarbonyl Compounds. Isolation and Properties of 2,3-Dihydropyrazine-1,4-Dioxides," Novosibirsk Institute of Organic Chemistry, Siberian Branch, Russian Academy of Sciences, translated from <i>Khimiya Geterotsiklicheskikh Soedinenii</i> , 1993, 4, 514-522.
BH	A29	Mazhukin, D. G. et al., "Organic Chemistry – Synthesis of aliphatic 1,2-bishydroxylamines from 1,3-dihydroxyimidazolidines. The crystal structure of 1,2-bishydroxylaminocycloalkanes," <i>Russian Chemical Bulletin</i> , 1993, 42(5), 851-857.
BH	A30	Mazhukin, D. G. et al., "Synthesis of 1,2-bis(methoxyamino)cycloalkanes from alicyclic 1,2-bis(hydroxyamines)," <i>Russian Chemical Bulletin</i> , 1996, 45(4), 925-929.
BH	A31	Mazhukin, D.G. et al., "Synthesis of Indeno[1,2-b]pyrazine N-Oxides by Reaction of Ninhydrin with 1,2-Bishydroxylamines," <i>Liebigs Ann. Chem.</i> 1994, 983-987.
BH	A32	Michaelson, R. C. et al., "Chiral Hydroxamic Acids as Ligands in the Vanadium Catalyzed Asymmetric Epoxidation of Allylic Alcohols by <i>tert</i> -Butyl Hydroperoxide," <i>Journal of the American Chemical Society</i> , 1997, 99(6), 1990-1992.

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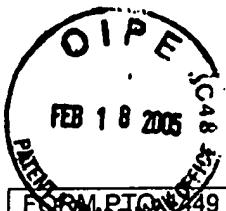
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BH	A33	Mihelich, E.D. et al., "Vanadium-Catalyzed Epoxidations. 2. Highly Stereoselective Epoxidations of Acyclic Homoallylic Alcohols Predicted by a Detailed Transition-State Model," <i>J. Am. Chem. Soc.</i> , 1981, 103(25), 7690-92.
BH	A34	Murase, N. et al., "Chiral Vanadium-Based Catalysts for Asymmetric Epoxidation of Allylic Alcohols," <i>J. Org. Chem.</i> , 1999, 64(2), 338-339.
BH	A35	Okachi, T. et al., "Catalytic Enantioselective Epoxidation of Homoallylic Alcohols by Chiral Zirconium Complexes," <i>Org. Lett.</i> , 2003, 5(1), 85-87.
BH	A36	Stoner, E.J. et al., "Benzylation via Tandem Grignard Reaction – Iodontrimethylsilane (TMSI) Mediated Reduction," <i>Tetrahedron</i> , 1995, 51(41), 11043-11062.
BH	A37	Tikhonov, A.Y. et al., "Synthesis and Inhibitory Effect on Platelet Aggregation and Antihypertensive Activity of 1-Hydroxy-2,5-dihydro-1 <i>H</i> -imidazole-2-carboxylic Acid 3-Oxides, 1,3-Dihydroxyimidazolidine-2-carboxylic Acids, and 1,4-Dihydroxy-2,3-piperazinediones," <i>Arch. Pharm. Pharm. Med. Chem.</i> , 1999, 332, 305-308.
BH	A38	Traber, B. et al., "Chiral Hydroxamic Acids as Ligands for the Vanadium Catalyzed Asymmetric Epoxidation of Allylic Alcohols," <i>Bull Korean Chem. Soc.</i> , 2001, 22(6), 547-548.
BH	A39	Wu, H.L. and Uang, B.J., "Asymmetric epoxidation of allylic alcohols catalyzed by new chiral vanadium(V) complexes," <i>Tetrahedron: Assymetry</i> , 2002, 13, 2625-28.

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B1	B1	Hoshino, Y. and Yamamoto, H., "Development of optically active hydroxamic acid coordinator: asymmetric epoxidation reactions of aryl alcohol," <i>Yuki Gosei Kagaku Kyokaishi</i> (J. Synth. Org. Chem. Jpn.), 2002, 60(5), 504-505.

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O P T M P T O - 1 4 4 9 MAY 10 2004 APPLICANT'S INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary)		SERIAL NO. 10/762,028	CASE NO. 7814/93 1625
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C1	5,602,267	2/11/1997	Zhao		

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BJ	C2	Waldemar, A., et al., "Control of Enantioselectivity through a Hydrogen-bonded template in the vanadium(V)-catalyzed epoxidation of allylic alcohols by optically active hydroperoxides", Tetrahedron: Asymmetry, 14(10), pp. 1355-1361.
BJ	C3	International Search report dated April 8, 2005.
BJ	C4	Written Opinion for PCT/US2005/000306 dated April 8, 2005.

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<i>B. Derry</i>	7-25-2005

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